

Docket No. 030841-054132-US

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Re application of: Frank Plummer, et al.

Application No.: 10/555,073

Group No.: To be assigned

Filed: 10/28/2005

Examiner: To be assigned

For: SARS VIRUS NUCLEOTIDE AND AMINO ACID SEQUENCES AND  
USES THEREOF

CERTIFICATE OF MAILING (37 C.F.R. SECTION 1.8(a))

I hereby certify that this paper (along with any paper referred to as being attached or enclosed) is being deposited with the United States Postal Service on the date shown below with sufficient postage as first class mail in an envelope addressed to MAIL STOP AMENDMENT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450

May 4, 2007

Date

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Hillary E. Allan  
Signature of person mailing paper

MAIL STOP AMENDMENT

Commissioner for Patents

P.O. Box 1450

Alexandria, VA 22313-1450

Sir:

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

In accordance with the provisions of 37 C.F.R. §§1.56 and 1.97, Applicants herewith submit the publications and/or patents shown on the attached form PTO-1449, for consideration by the Examiner in connection with the examination of the above-identified patent application.

### REMARKS

In accordance with the provisions of 37 C.F.R. §1.97, this statement is being filed:

- X (1) within three (3) months of the Filing Date or **before the mailing date of the First Office Action** on the merits; or
- (2) within three months of the mailing date of the European Search Report; or
- (3) after the period defined in (1) but before the mailing date of a **Final Rejection or Notice of Allowance**, and the requisite Certification or fee under Rule 1.17(p), namely **\$180.00**, is included herein; or
- (4) after the mailing date of a **Final Rejection or Notice of Allowance** but before the payment of the **Issue Fee**, and the requisite Certification, petition, and petition fee are included herein.

It is respectfully requested that each of the documents shown on the attached form(s) PTO-1449 be made of record in this application. Copies of these documents (CHECK ONE):

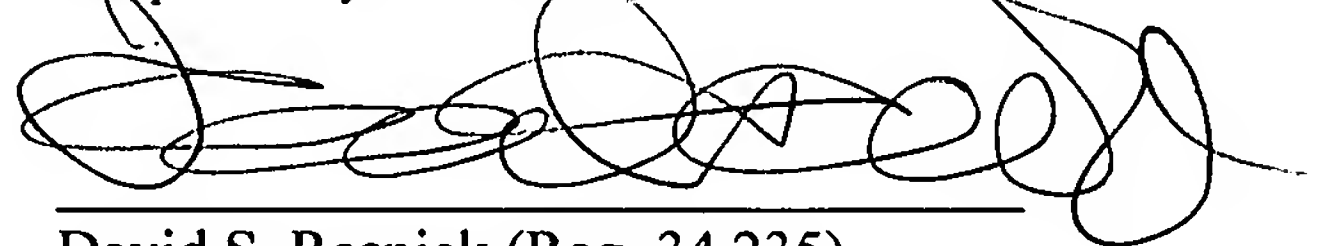
- X are enclosed herewith;
- X Pursuant to 37 C.F.R. § 1.98, copies of the U.S. patents and U.S. patent application publications (i.e., Reference Cite No.) listed on the attached PTO/SB/08 form is no longer required and therefore are not enclosed. These documents can be found in the U.S. PTO issued patents database.

Early examination and allowance of the present application are respectfully solicited.

### FEE AUTHORIZATION

Should any fees associated with the submission be required, the Commissioner is authorized to charge the missing fee to our Deposit Account No. 50-0850. Any overpayments should be credited to said Deposit Account.

Respectfully submitted,



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Date: May 4, 2007

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Substitute for form 1449/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> (Use as many sheets as necessary)		<b>Complete if Known</b>	
		Application Number	10/555,073
		Filing Date	October 28, 2005
		First Named Inventor	PLUMMER, Frank
		Art Unit	To be assigned
		Examiner Name	To be assigned
Sheet 2	of 4	Attorney Docket Number	030841-054132-US

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, pages, volume-issue number(s), publisher, city and /or country where published.	T <sup>2</sup>
	C9	ALTSCHUL, S. F. et al., <i>Nucleic Acids Res</i> 25: 3389-3402 (September 1, 1997)	<input type="checkbox"/>
	C10	APWEILER, R. et al., <i>Nucleic Acids Res</i> 29: 37-40 (January 1, 2001)	<input type="checkbox"/>
	C11	BARRY, M. A. et al., "Protection against mycoplasma infection using expression-library immunization", <i>Nature</i> 377: 632-635 (1995)	<input type="checkbox"/>
	C12	BATEMAN, A. et al., <i>Nucleic Acids Res</i> 30: 276-280 (January 1, 2002)	<input type="checkbox"/>
	C13	BORREBAECK, C. A. et al., "Protein chips based on recombinant antibody fragments: a highly sensitive approach as detected by mass spectrometry", <i>Biotechniques</i> 30: 1126-1132 (2001)	<input type="checkbox"/>
	C14	BOWTELL, D. D. L., <i>Nature Genetics Supplement</i> 21: 25-32 (1999)	<input type="checkbox"/>
	C15	CHEN, J. et al., "MMDB: Entrez's 3D-structure database", <i>Nucleic Acids Research</i> 31(1): 474-477 (2003)	<input type="checkbox"/>
	C16	CHEUNG, V. G. et al., <i>Nature Genetics Supplement</i> 21:15-19 (1999)	<input type="checkbox"/>
	C17	CHIANG, A. et al., "The Structure Superposition Database", <i>Nucleic Acids Research</i> 31(1): 505-510 (2003)	<input type="checkbox"/>
	C18	ECKERT et al., <i>PCR Methods and Applications</i> 1: 17 (1991)	<input type="checkbox"/>
	C19	EISENBERG et al., <i>J. Mol. Bio.</i> 179:125-142 (1984)	<input type="checkbox"/>
	C20	EMILI, A. Q. and CAGNEY, G., "Large-scale functional analysis using peptide or protein arrays", <i>Nature Biotechnol</i> 18: 393-397 (2000)	<input type="checkbox"/>
	C21	EVAN et al., <i>Mol. Cell Biol.</i> 5: 3610-3616 (1985)	<input type="checkbox"/>
	C22	EWING, B. and GREEN, P., <i>Genome Res</i> 8:186-194 (March 1998)	<input type="checkbox"/>
	C23	FYNAN, E. F. et al., "DNA vaccines: protective immunizations by parental, mucosal, and genegun inoculations", <i>Proc Natl Acad Sci USA</i> 90: 11478-11482 (1993)	<input type="checkbox"/>
	C24	GIBSON, U. E. et al., "A novel method for real time quantitative RT-PCR", <i>Genome Research</i> 6(10): 995-1001 (October 1996)	<input type="checkbox"/>
	C25	GORDON, D. et al., <i>Genome Res</i> 8: 195-202 (March 1998)	<input type="checkbox"/>
	C26	GUATELLI et al., <i>Proc. Nat. Acad. Sci. USA</i> 87: 1874 (1990)	<input type="checkbox"/>
	C27	HEID et al., "Real Time Quantitative PCT", <i>Genome Research</i> , pp. 986-994 (1996)	<input type="checkbox"/>
	C28	HIGUCHI, R. et al., "Kinetic PCR Analysis: Real-time Monitoring of DNA Amplification Reactions", <i>Bio/Technology</i> 11: 1026-1030 (1993)	<input type="checkbox"/>
	C29	HOFMAN, K. and STOFFEL, W., <i>Biol. Chem. Hoope-Seyler</i> 374: 166 (1993)	<input type="checkbox"/>
	C30	HOLLAND et al., <i>Proc. Natl. Acad. Sci.</i> 88: 7276-7280 (1991)	<input type="checkbox"/>
	C31	HOLLOWAY, A. J. et al., <i>Nature Genetics Supplement</i> 32: 481-489 (2002)	<input type="checkbox"/>

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C32	HUANG, R. P., "Detection of multiple proteins in an antibody-based protein microarray system", <i>J Immunol Methods</i> 255:1-13 (2001)	<input type="checkbox"/>
C33	HUNG, L. H. and SAMUDRALA, R., "PROTINFO: secondary and tertiary protein structure prediction", <i>Nucleic Acids Research</i> 31(13): 3296-3299 (2003)	<input type="checkbox"/>
C34	JONASSEN, C.M. et al., <i>J. Gen Virol</i> 79 (Pt. 4): 715-718 (April 1998)	<input type="checkbox"/>
C35	KOHLER, et al., <i>Eur. J. Immunol.</i> 6:292 (1976)	<input type="checkbox"/>
C36	KOHLER, et al., <i>Eur. J. Immunol.</i> 6:511 (1976)	<input type="checkbox"/>
C37	KOHLER, et al., <i>Nature</i> 256: 495 (1975)	<input type="checkbox"/>
C38	KUKAR, T. et al., "Protein microarrays to detect protein-protein interactions using red and green fluorescent proteins", <i>Anal Biochem</i> 306:50-54 (2002)	<input type="checkbox"/>
C39	KWOH et al., <i>Proc. Natl. Acad. Sci. USA</i> 86: 1173 (1989)	<input type="checkbox"/>
C40	LAI, M.M.C. and CAVANAGH, D., <i>Adv Virus Res.</i> 48: 1-100 (1997)	<input type="checkbox"/>
C41	LANDEGREN et al., <i>Science</i> 241: 1077 (1988)	<input type="checkbox"/>
C42	LEVIT-BINNUN, N. et al., "Quantitative detection of protein arrays", <i>Anal Chem</i> 75:1436-1441 (2003)	<input type="checkbox"/>
C43	LIPSHUTZ, R. J. et al., <i>Nature Genetics Supplement</i> 21:20-24 (1999)	<input type="checkbox"/>
C44	LUEKING, A. et al., "Protein Microarrays for Gene Expression and Antibody Screening", <i>Anal. Biochem.</i> 270: 103-111 (1999)	<input type="checkbox"/>
C45	MACBEATH, G. and SCHREIBER, S. L., <i>Science</i> 289: 1760-1763 (2000)	<input type="checkbox"/>
C46	MARTZEN, M. R. et al., <i>Science</i> 286:1153 (1999)	<input type="checkbox"/>
C47	MATTILA et al., <i>Nucleic Acids Res.</i> 19: 4967 (1991)	<input type="checkbox"/>
C48	MUNCH, R., <i>Microbes Infect</i> 5: 69-74 (January 2003)	<input type="checkbox"/>
C49	NIELSEN, H. et al., <i>Prot Engineer</i> 10:1-6 (1997)	<input type="checkbox"/>
C50	PARSONS, J. D., <i>Comput Appl Biosci</i> 11: 615-619 (December 1995)	<input type="checkbox"/>
C51	PEARSON, W. R. and LIPMAN, D. J., <i>Proc Natl Acad Sci USA</i> 85: 2444-2448 (April 1988)	<input type="checkbox"/>
C52	SAWICKI, D.L. et al., <i>J. Gen Virol</i> 82, 386 (2001)	<input type="checkbox"/>
C53	SAWICKI, S.G. and SAWICKI, D.L., <i>Adv. Exp. Med Biol.</i> 440: 215-9 (1998)	<input type="checkbox"/>
C54	SAWICKI, S.G. and SAWICKI, D.L., <i>J. Virol.</i> 64: 1050 (1990)	<input type="checkbox"/>
C55	SCHAAD, M. and BARIC, R.S.J., <i>J. Virol.</i> 68: 8169 (1994)	<input type="checkbox"/>
C56	SCHWEITZER, B. et al., <i>Nature Biotechnol.</i> 20: 359-365 (2002)	<input type="checkbox"/>
C57	SETHNA, P.B. et al., <i>Proc. Natl. Acad. Sci. U.S.A.</i> 86: 5626 (1989)	<input type="checkbox"/>



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C58	SINGH-GASSON, S. et al., <i>Nature Biotechnol.</i> 17: 974-978 (1999)	<input type="checkbox"/>
C59	SMITH et al., <i>Gene</i> 67: 31-40 (1988)	<input type="checkbox"/>
C60	SONNHAMMER, E.L. et al., <i>Proc Int Conf Intell Syst Mol Biol</i> 6: 175-182 (1998)	<input type="checkbox"/>
C61	TEMPLIN, M. F. et al., "Protein microarray technology", <i>Drug Discov Today</i> 7: 815-822 (2002)	<input type="checkbox"/>
C62	THOMPSON, J.E. et al., <i>Nucleic Acids Res</i> 22: 4673-80 (November 11, 1994)	<input type="checkbox"/>
C63	WHALEN, R. G. et al., "DNA-mediated immunization and the energetic immune response to hepatitis B surface antigen", <i>Clin Immunol Immunopathol</i> 75: 1-12 (1995)	<input type="checkbox"/>
C64	WOLFF, J. A. et al., "Direct gene transfer into mouse muscle in vivo", <i>Science</i> 247: 1465-1468 (1990)	<input type="checkbox"/>
C65	WU and WALLACE, <i>Genomics</i> 4: 560 (1989)	<input type="checkbox"/>
C66	YAMAGUCHI, A. et al., "Enlarged FAMSBASE: protein 3D structure models of genome sequences for 41 species", <i>Nucleic Acids Research</i> 31(1): 463-468 (2003)	<input type="checkbox"/>
C67	ZDOBNOV, E. M. and APWEILER, R., <i>Bioinformatics</i> 17: 847-848 (September 2001)	<input type="checkbox"/>
C68	ZHU, H. et al., "Analysis of yeast protein kinases using protein chips", <i>Nature Genet</i> 26: 283-289 (2000)	<input type="checkbox"/>
C69	ZIEBUHR, J. et al., <i>J. Gen Virol</i> 81: 853-79 (April 2000)	<input type="checkbox"/>

Examiner Signature	Date Considered
<p>*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.</p> <p><sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> Applicant is to place a checkmark here if English language Translation is attached.</p> <p>This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.</p> <p>If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.</p>	